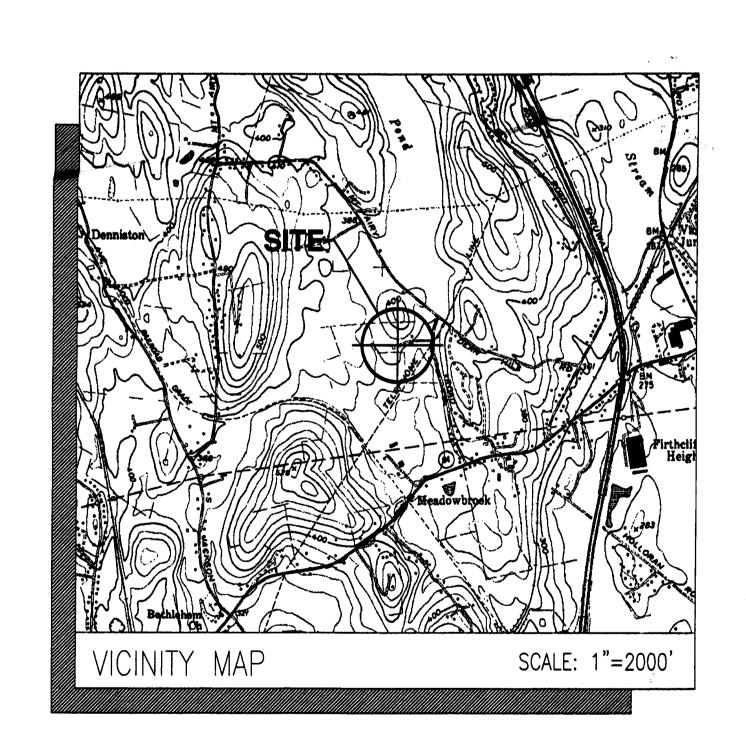
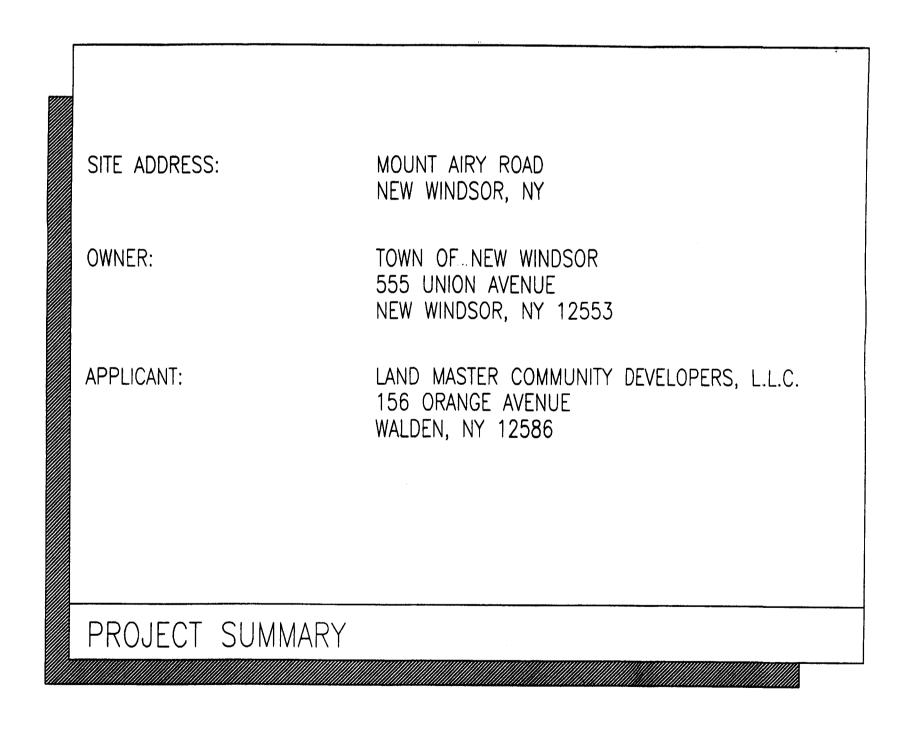
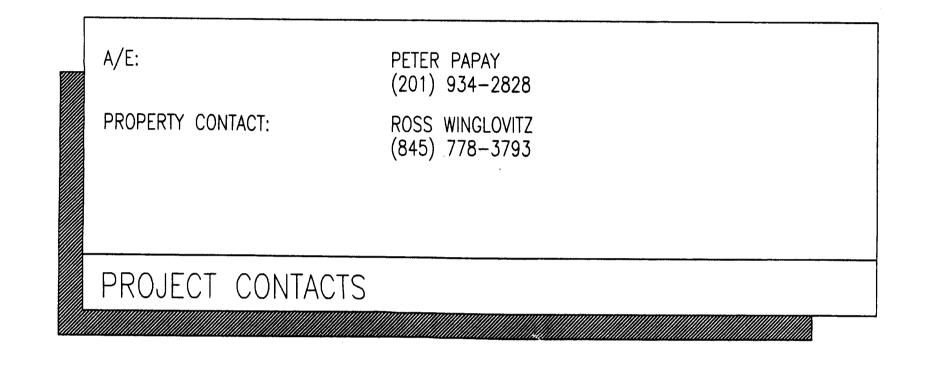
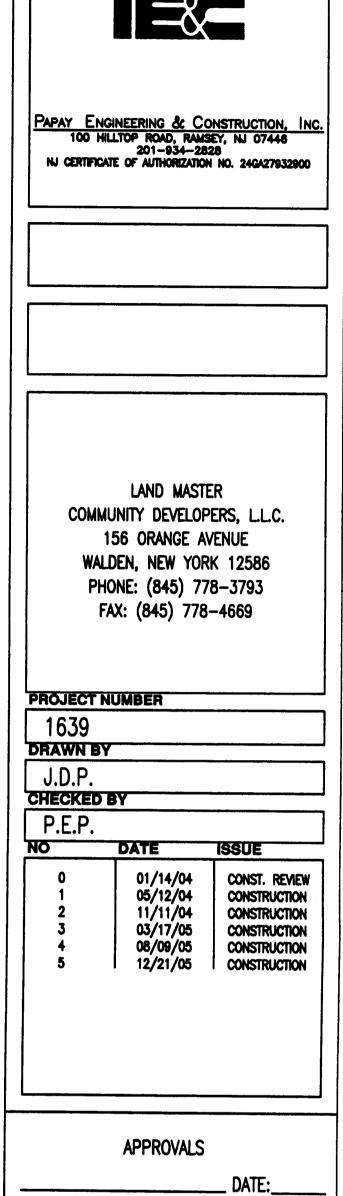
UPGRADE AND MODIFICATIONS TO MOUNT AIRY SEWAGE PUMPING STATION SEWER DISTRICT #16







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SHEET NUMBER	DESCRIPTION	REVISION DATE				
T-1	TITLE SHEET	12/21/05				
S-1	PARTIAL SITE PLAN, BUILDING PLAN AND NOTES	12/21/05				
S-2	DETAILS AND NOTES	12/21/05				
S-3	BUILDING ELEVATIONS	12/21/05				
S-4	DETAILS	12/21/05				
M-1	MECHANICAL PLANS, DETAILS AND NOTES	12/21/05				
E-1	ELECTRICAL PLAN, DETAILS AND NOTES	12/21/05				
E-2	ELECTRICAL PLANS	12/21/05				
SHEET INDEX						



MOUNT AIRY ROAD NEW WINDSOR, ORANGE COUNTY, NEW YORK

_ Date:__

_ DATE:__

SHEET TITLE

TITLE SHEET

SHEET NUMBER

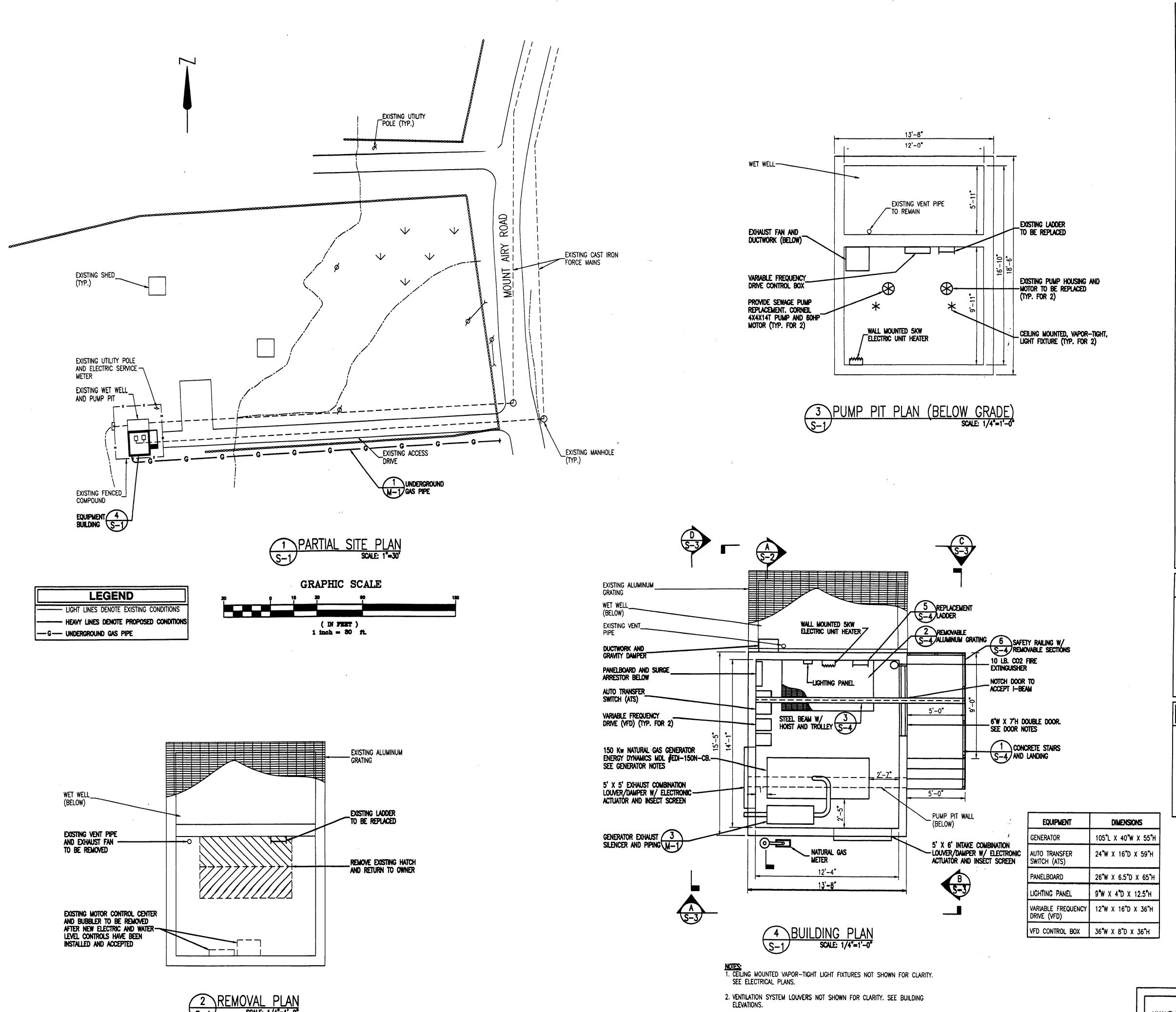
T-1

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PETER E. PAPAY

No. 06 AGO RESIDENT

N.Y. PROFESSIONAL ENGINEER NO. 064690



GENERAL NOTES

- THIS SET OF PLANS SHALL NOT BE USED FOR CONSTRUCTION UNTIL IT HAS BEEN DEPICTED AS SUCH IN THE ISSUE BLOCK.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST CONSTRUCTION SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS CONTRACT DOCUMENTS GIVE OTHER SPECIFIC INSTRUCTIONS CONCERNING CERTAIN MATTERS.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, APPURTENANCES, LABOR AND TEMPORARY MEASURES NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE CONTRACT DOCUMENTS.
- ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE AND EXECUTION OF THE WORK. FLECTRICAL SYSTEMS SHALL BE HISTALLED IN ACCORDANCE WITH ALL APPLICABLE MUHICIPAL AND STATE JURISDICTIONAL CODES, THE NATIONAL ELECTRIC CODE, AND UTILITY COMPANY SPECIFICATIONS.
- ALL ITEMS REQUIRING INSPECTION SHALL BE INSPECTED AND APPROVED PRIOR TO CONCEALMENT OF SUCH ITEMS.
- CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO PROTECT ALL EXISTING AREAS OF THE PROJECT SITE FROM DAMAGE MADE BY THE HANDLING OF MATERIALS, EQUIPMENT, TOOLS AND NORMAL CONDITION ACTIVITY FOR THE DURATION OF THE PROPERTY OF THE PROPERT WORK. ALL EFFECTED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF THE WORK.
- KEEP CONTRACT AREA CLEAN AND HAZARD FREE THROUGHOUT THE DURATION OF THE WORK. DISPOSE OF ALL DEBRIS, RUBBISH, EQUIPMENT REMOVED AND NOT SPECIFIED TO REMAIN ON THE PROPERTY OF THE OWNER. LEAVE PREMISES IN A FIRST CLASS CLEAN CONDITION, FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. REPAIR AND PAINT ALL EXISTING SURFACES THAT HAVE BEEN DAMAGED OR OTHERWISE EFFECTED BY THE WORK SUCH THAT THEY BLEND WITH ADJACENT SURFACES.
- DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY ALL DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WRITTEN CLARIFICATION FROM THE CONSTRUCTION MANAGER OR ENGINEER, PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL OBTAIN ALL CLARIFICATIONS AND AUTHORIZATIONS IN WRITING BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS
 INSTRUCTIONS, UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES
 OR REGULATIONS TAKE PRECEDENCE.
- 11. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL CITY, STATE AND O.S.H.A. SAFETY REQUIREMENTS.
- 12. DURING THE COURSE OF THE WORK, THE PROPERTY OWNER(S), HIS EMPLOYEES, SUPPLIERS, CLIENTS, TENANTS AND VISITORS SHALL CONTINUE TO OCCUPY AND USE THE FACILITY AND PREMISES. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE THE WORK ACCORDINGLY.
- 13. SEAL ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS. ALL EXTERIOR PENETRATIONS SHALL BE WEATHERPROOF.
- 4. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS. SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- 15. DO NOT DEVIATE FROM MANUFACTURERS LISTED WITHIN THE CONTRACT DOCUMENTS, UNLESS UNAVAILABLE. OBTAIN PRIOR APPROVAL FROM CONSTRUCTION MANAGER FOR SUCH DEVIATIONS.
- 16. DELIVER ALL MAINTENANCE AND INSTRUCTION MANUALS AND SPARE PARTS TO THE CONSTRUCTION MANAGER.
- 7. ALL MATERIALS AND WORKMANSHIP PROVIDED UNDER THIS CONTRACT SHALL BE GUARANTEED TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION, OR LONGER IF OFFERED BY EQUIPMENT MANUFACTURERS OR REQUIRED ELSEWHERE WITHIN THE CONTRACT DOCUMENTS. ANY DEFICIENCIES THAT BECOME EVIDENT DURING THE GUARANTEE PERIOD SHALL BE CORRECTED TO THE SATISFACTION OF THE CONSTRUCTION MANAGER AT THE CONTRACTOR'S EXPENSE.
 ALL EXISTING ROOF OR OTHER BUILDING WARRANTIES SHALL REMAIN IN EFFECT AND INTACT DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL COORDINATE WITH SAID GUARANTOR(S) SUCH THAT THOSE WARRANTIES ARE MAINTAINED.
- 18. LOCATE AND MARK-OUT ALL UNDERGROUND UTILITIES AND STRUCTURES THROUGH THE USE OF A UTILITY LOCATING SERVICE PRIOR TO ANY EXCAVATION WORK. HAND DIG IN AREAS OF EXISTING UTILITIES AND/OR STRUCTURES.

REMOVAL NOTES

- DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL FIXTURES, RECEPTACLES, SWITCHES AND DEVICES TO THE EXTENT REQUIRED TO FACILITATE NEW WORK. REMOVE ALL ASSOCIATED
- MAINTAIN CIRCUITRY OF DEVICES AND EQUIPMENT OUTSIDE OF NEW EQUIPMENT BUILDING. EXTEND EXISTING BOXES THAT ARE UNABLE TO BE ABANDONED. PROVIDE NEW COVER PLATES FLUSH WITH NEW WALL FINISH.
- VERIFY THAT ALL ITEMS CAN BE SAFELY REMOVED PRIOR TO EXECUTION OF REMOVAL
- DISCONNECT AND REMOVE ALL EXISTING PLUMBING AND HEATING FIXTURES, ELEMENTS AND ASSOCIATED PIPING TO THE EXTENT REQUIRED TO FACILITATE NEW WORK, PROVIDE NEW VALVES, CAPS AND PIPING REQUIRED TO MAINTAIN PLUMBING AND HEATING SERVICES OUTSIDE OF NEW EQUIPMENT BUILDING.

GENERATOR NOTES

- PROVIDE 150 KW GENERATOR SET. ENERGY DYNAMICS MOL #EDI-150N-CB
- GENERATOR SET TO BE PROVIDED WITH THE FOLLOWING ACCESSORIES:

 EMERGENCY STOP

 AUTO-START
- CRITICAL SILENCER
- MAIN LINE CIRCUIT BREAKER 12V ELECTRICAL SYSTEM
- BATTERIES - AUTOMATIC BATTERY CHARGER - VIBRATION ISOLATORS - BYPASS OIL FILTER STANDARD ALARM PACKAGE

DATE:____ STITE ADDRESSS:
MOUNT AIRY ROAD NEW WINDSOR, ORANGE COUNTY,

NEW YORK

LAND MASTER

156 ORANGE AVENUE

WALDEN, NEW YORK 12586

PHONE: (845) 778-3793

FAX: (845) 778-4669

05/12/04

11/11/04

08/09/05

APPROVALS

12/21/05 | CONSTRUCTION

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CONSTRUCTION

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CONSTRUCTION

PROJECT NUMBER

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CHECKED BY

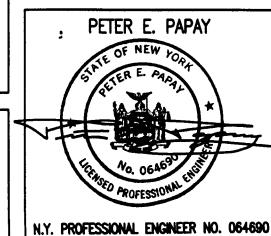
COMMUNITY DEVELOPERS, LLC

SHEET TITLE

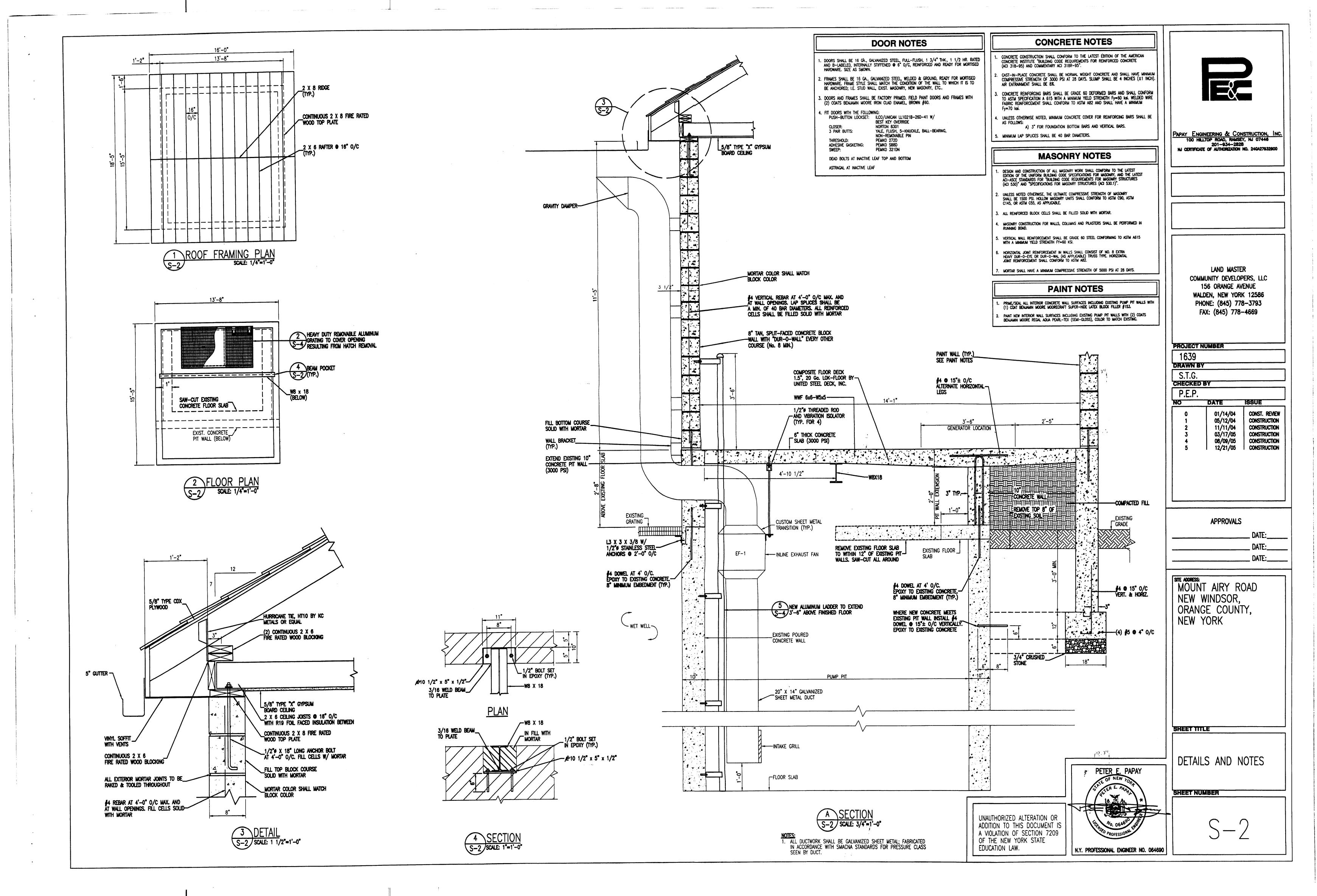
PARTIAL SITE PLAN, BUILDING PLAN AND **NOTES**

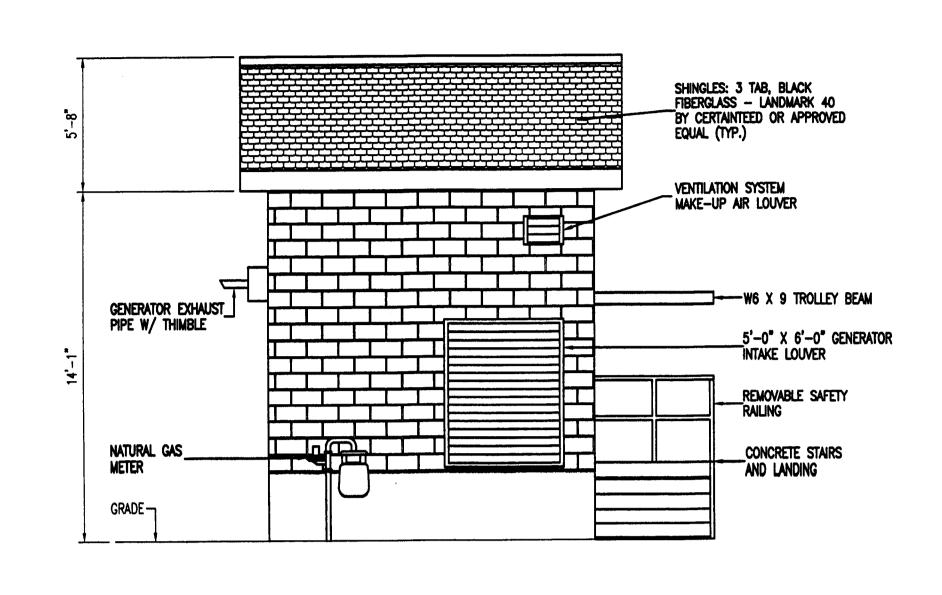
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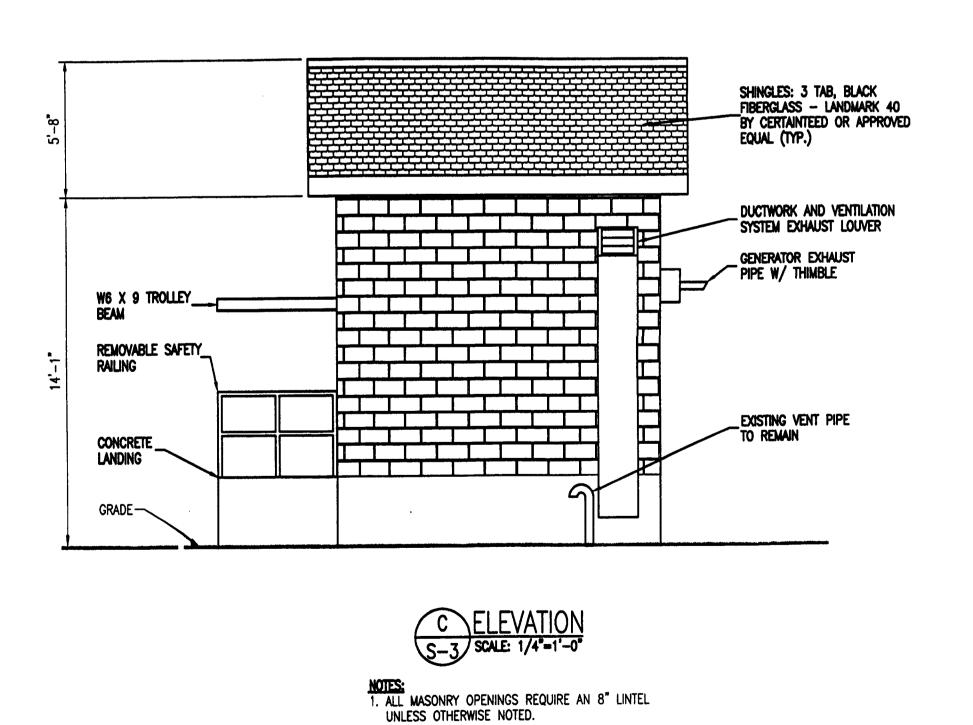
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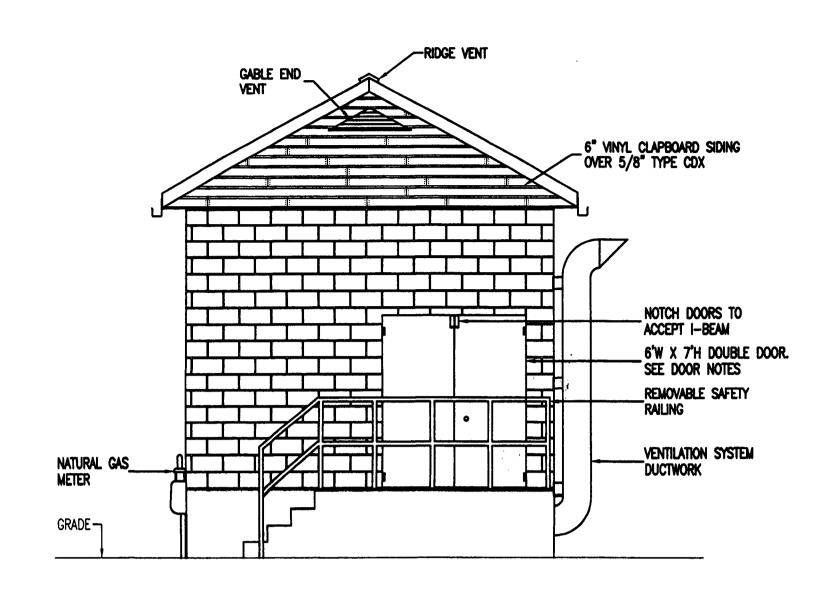




S-3/ SCALE: 1/4"=1'-0" NOTES:

1. ALL MASONRY OPENINGS REQUIRE AN 8" LINTEL UNLESS OTHERWISE NOTED.

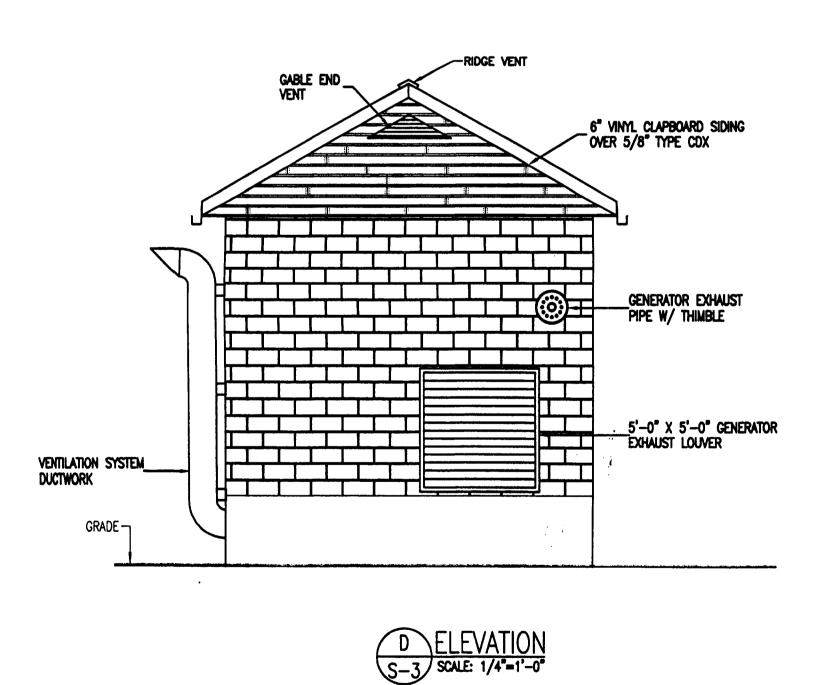




S-3 SCALE: 1/4"=1'-0

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NOTES:

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201-934-2828 NJ CERTIFICATE OF AUTHORIZATION NO. 24GA27932900

LAND MASTER COMMUNITY DEVELOPERS, LLC 156 ORANGE AVENUE WALDEN, NEW YORK 12586 PHONE: (845) 778-3793 FAX: (845) 778-4669

PROJECT NUMBER DRAWN BY S.T.G. CHECKED BY P.E.P. DATE ISSUE 01/14/04 05/12/04 CONST. REVIEW CONSTRUCTION

11/11/04

03/17/05 08/09/05 CONSTRUCTION CONSTRUCTION 12/21/05 | CONSTRUCTION

CONSTRUCTION

APPROVALS

STITE ADDRESSS:
MOUNT AIRY ROAD NEW WINDSOR, ORANGE COUNTY, NEW YORK

SHEET TITLE

BUILDING ELEVATIONS

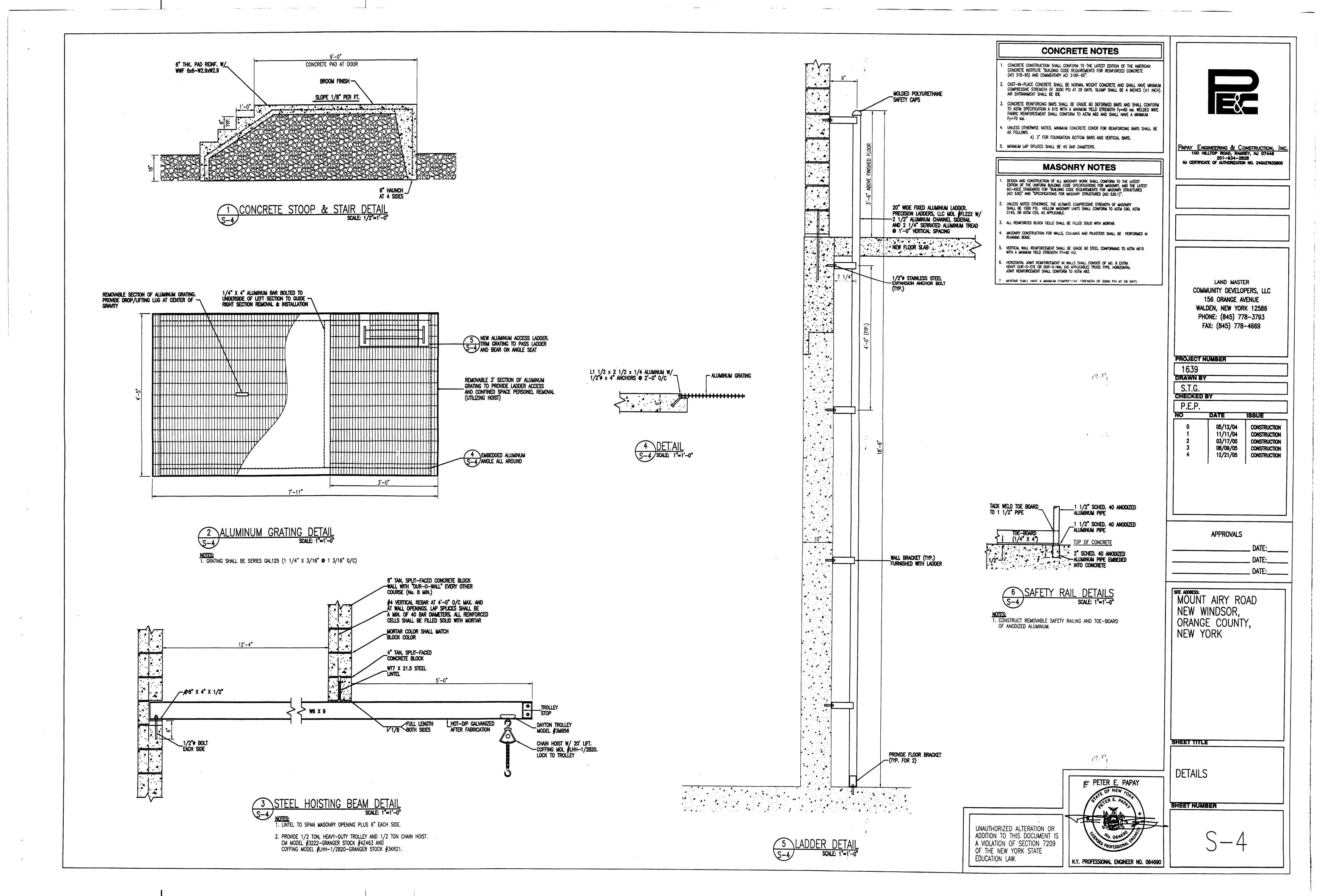
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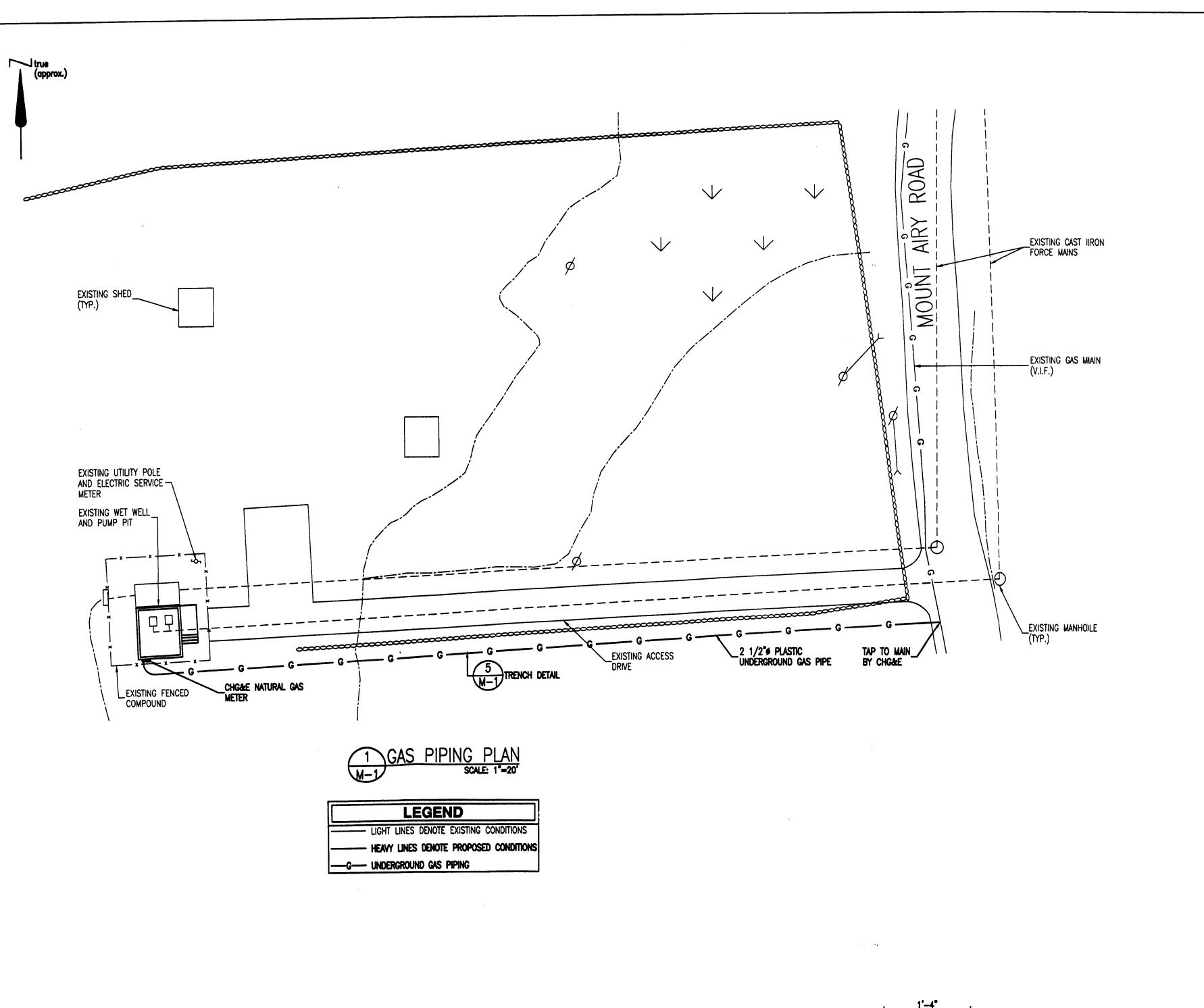
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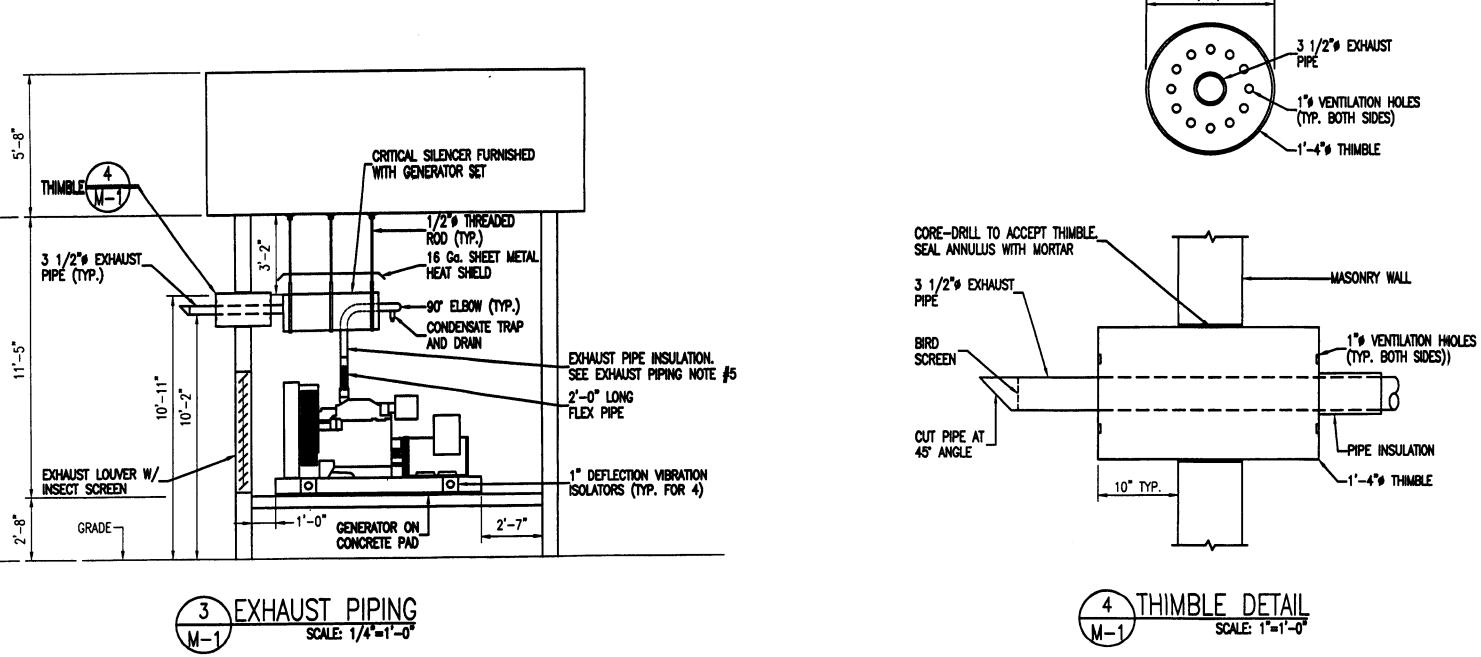
N.Y. PROFESSIONAL ENGINEER NO. 064690

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F PETER E. PAPAY





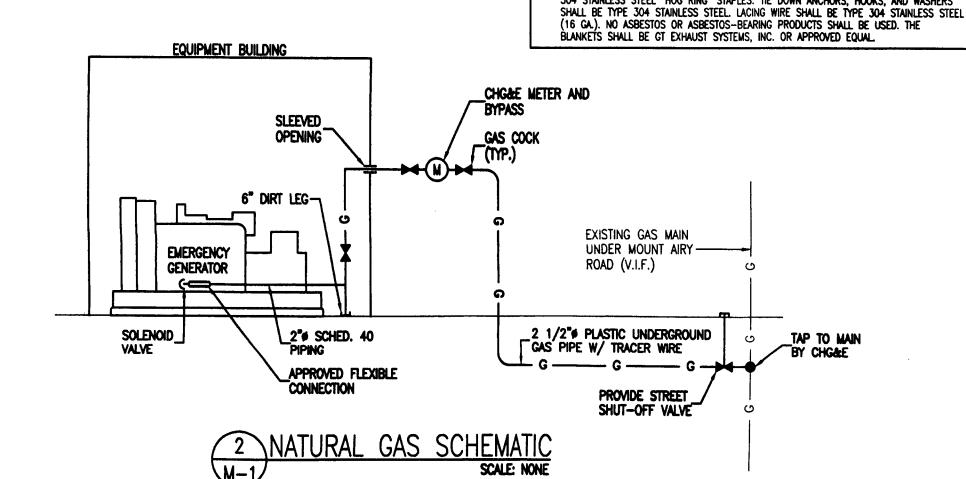


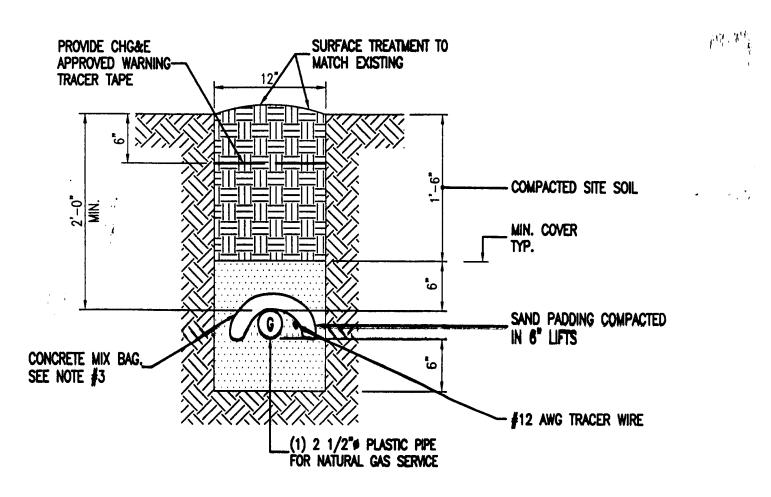
GAS PIPING NOTES

- CONTRACTOR SHALL PROVIDE ALL CUTTING AND EXCAVATION REQUIRED TO INSTALL MATERIALS AND EQUIPMENT. PATCHING WILL BE PROVIDED BY THE CONTRACTOR.
 BELOW GROUND GAS PIPING SHALL BE HIGH OR MEDIUM DENSITY POLYETHYLENE CONFORMING TO ASTM D2513.
- 3. ABOVE GROUND GAS PIPING SHALL BE SCHEDULE 40, BLACK STEEL PIPE WITH THREADED FITTINGS. PIPE SHALL CONFORM TO ASTM-A53. NO UNIONS, BUSHINGS, RIGHT AND LEFT COUPLINGS, SWING JOINTS AND GLAND TYPE JOINTS SHALL BE USED IN CONCEALED
- 4. GAS PIPING WORK SHALL COMPLY WITH SECTION 400 OF THE FUEL GAS CODE OF NEW YORK STATE AND ANY SPECIAL REQUIREMENTS OF THE TOWN OF NEW WINDSOR.
- 5. FITTINGS SHALL BE SCHEDULE 40 MALLEABLE CAST IRON SCREW TYPE, SEAL FITTINGS WITH PIPE JOINT COMPOUND WHICH IS RESISTANT TO LIQUEFIED PETROLEUM GAS. APPLY COMPOUND TO MALE THREADS ONLY.
- SUPPORT GAS PIPING IN ACCORDANCE WITH ANSI/MSS SP-58 & 69, AND NYS BUILDING CODE.
- PRESSURE TEST NEW GAS RISERS PRIOR TO CONNECTION AND CONCEALMENT IN ACCORDANCE WITH SECTION 406 OF THE FUEL GAS CODE, OF NEW YORK STATE. CONCEALMENT AND CONNECTIONS SHALL OCCUR ONLY AFTER PASSING THE TEST.
- B. REDUCTIONS IN PIPE SIZE SHALL BE ACCOMPLISHED WITH REDUCERS. BUSHINGS ARE NOT
- PURGE SYSTEM IN ACCORDANCE WITH NFPA-54.
- PROVIDE GAS COCKS, DIRT LEGS AND UNIONS AT CONNECTIONS TO ALL APPLIANCES. PROVIDE METER VALVE UPSTREAM OF METER. PROVIDE EXTERIOR SHUTOFF VALVE.
- I. APPLY FOR AND OBTAIN NEW GAS SERVICE FROM CHG&E. COORDINATE FINAL METER LOCATION WITH CHG&E. PROVIDE ALL EQUIPMENT & MATERIALS IN ACCORDANCE WITH CHG&E STANDARDS.

EXHAUST PIPING NOTES

- 1. TO REDUCE CONDENSATE BUILD-UP, PITCH MUFFLER & EXHAUST PIPING 1/8" PER FOOT.
- 2. EXHAUST PIPING SHALL CONFORM TO THE LATEST EDITION OF NFPA 37.
- 3. PROVIDE SUITABLE SUPPORT FROM JOISTS ABOVE. SYSTEM WEIGHT MAY NOT BE IMPOSED ON TURBO-CHARGER OUTLET.
- 4. EXHAUST PIPING SHALL BE SCHEDULE 40, BLACK STEEL PIPE WITH THREADED FITTINGS.
- 5. COVER THE INTERIOR EXHAUST PIPING, SILENCER, EXHAUST MANIFOLD(S), AND TURBO(S) WITH INSULATION OF A NON-COMBUSTIBLE TYPE INSULATION BLANKET MATERIAL BLANKETS SHALL BE TOTALLY ENCAPSULATED IN 304 STAINLESS STEEL MESH. OUTER LINER SHALL CONSIST OF A SILICONE COATED FIBERGLASS CLOTH. HOLD TOGETHER SEAMS WITH 304 STAINLESS STEEL "HOG RING" STAPLES. TIE DOWN ANCHORS, HOOKS, AND WASHERS





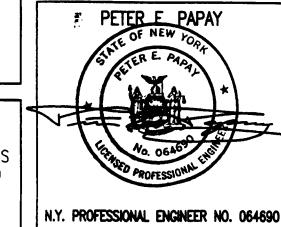
5 UNDERGROUND UTILITY TRENCH DETAIL

SCALE: 1*=1'-0*

- NOTE:

 1. BACKFILL WITH SITE SOIL WHICH IS FREE FROM 6" IN DIAMETER OR GREATER ROCKS. COMPACT BACKFILL IN 6" LIFTS.
- THE BACKFILLED TRENCH SHALL BE CROWNED SLIGHTLY TO ALLOW FOR FUTURE SETTLEMENT. THE CROWN SHALL BE THOROUGHLY COMPACTED.
- 3. PLACE ONE, UNOPENED, 75# BAG OF CONCRETE MIX DIRECTLY OVER THE PIPE AT 40' INTERVALS.

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PAPAY ENGINEERING & CONSTRUCTION, INC
100 HILLTOP ROAD, RAMSEY, NJ 07446
201-934-2828
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA27932900

LAND MASTER
COMMUNITY DEVELOPERS, LLC
156 ORANGE AVENUE
WALDEN, NEW YORK 12586
PHONE: (845) 778-3793
FAX: (845) 778-4669

APPROVALS

DATE:

DATE:

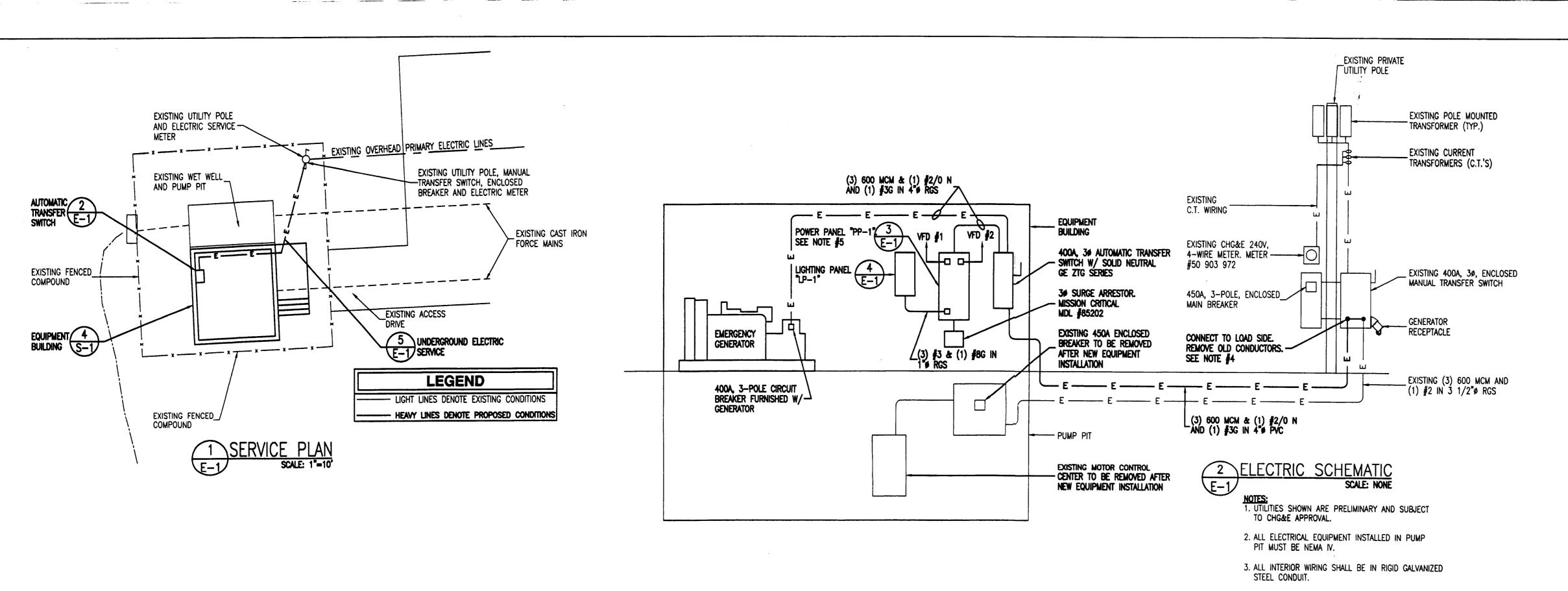
MOUNT AIRY ROAD NEW WINDSOR, ORANGE COUNTY, NEW YORK

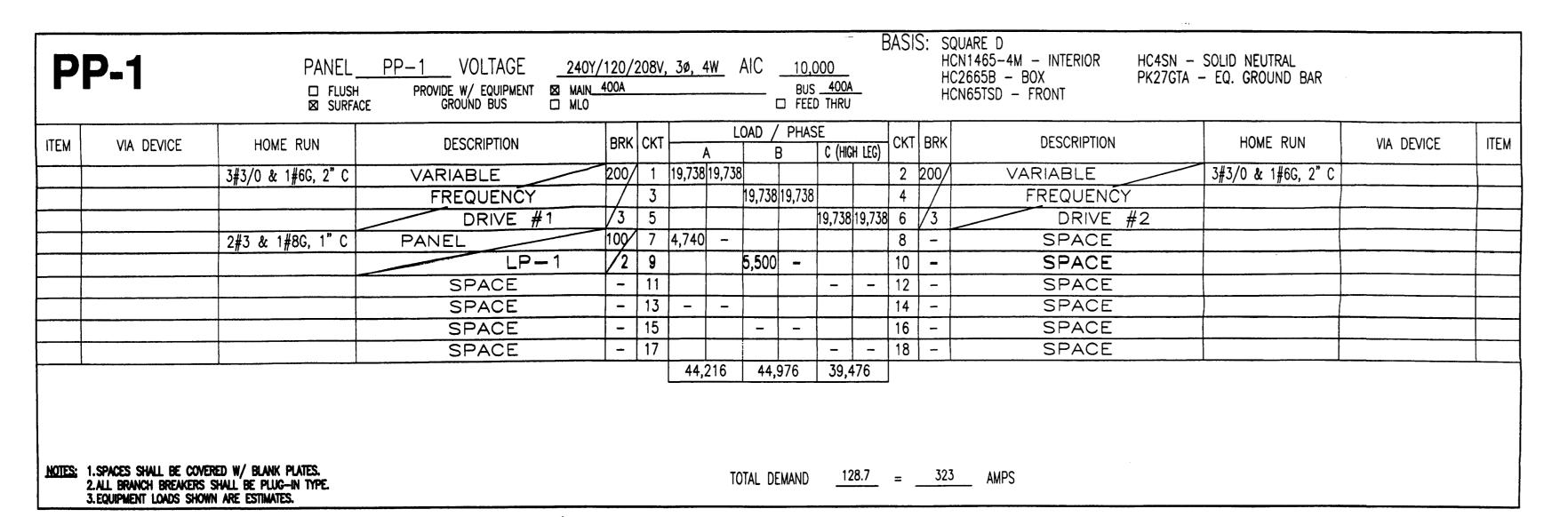
SHEET TITLE

MECHANICAL PLANS, DETAILS AND NOTES

SHEET NUMBER

M-





3 THREE-PHASE PANEL SCHEDULE SCALE: NONE

L	P-1	PANEL_ FLUSH SURFA	PROVIDE W/ EQUIPMENT MAIN		V, 1ø	, 3W	A		10,0 BUS			BASIS: SQUARE D Q08-16L100S - BOX & INT PK7GTA - EQ. GROUND BAR	ERIOR		
ITEM	VIA DEVICE	HOME RUN	DESCRIPTION	BRK	СКТ	L	OAD /	PHAS		CKT	BRK	DESCRIPTION	HOME RUN	VIA DEVICE	ITEM
	SWITCH	2#12 & 1#12G, 3/4" C	EQUIPMENT ROOM LIGHTING	15	1	400	180			2	15	EXTERIOR W.P. RECEPTACLE	2#12 & 1#12G, 3/4" C	(1) NEMA 5-20R (W.FP., GFI)	
		2#12 & 1#12G, 3/4" C	EXISTING SUMP PUMP	15	3			720	540	4	15	PUMP PIT W.P. RECEPTACLES	2#12 & 1#12G, 3/4" C		
	SWITCH	2#12 & 1#12G, 3/4" C	PUMP PIT EXHAUST FAN & LIGHTING	15	5	920	720			6	15	EQUIPMENT ROOM RECEPTACLES	2#12 & 1#12G, 3/4" C	(4) NEMA 5-210R	
		2#12 & 1#12G, 3/4" C	EXISTING WET WELL EXHAUST FAN	15	7			720	1,000	8	15	EXISTING DEHUMIDIFIER	2#12 & 1#12G, 3/4" C		
			SPACE	15	9	-	2,520			10	30	EQUIPMENT ROOM HEATER	2#10 & 1#10G, 3/4" C		
		2#10 & 1#10G, 3/4" C	PUMP PIT HEATER	30	11		2	2,520	-	12	-	SPACE			
			SPACE	15	13	-	-			14	-	SPACE			
			SPACE	-	15			-	_	16	-	SPACE			
NOTES:	1.SPACES SHALL BE COVE 2.ALL BRANCH BREAKERS 3.EQUIPMENT LOADS SHOW	RED W/ BLANK PLATES. SHALL BE PLUG—IN TYPE. AN ADE ESTIMATES	LIGHTING RECEPT. (10KW OR LE RECEPT. (OVER 10KW MOTORS KITCHEN EQUIP. MISC.	SS)	3.1 5.0 0	6 9		5,5 125% 100% 50% 100% 100% AL DE	= = = = =		0.7 0.9 3.56 5.04 0.4 10.6	= <u>51</u> AMPS		•	

4 SINGLE-PHASE PANEL SCHEDULE SCALE: NONE

ELECTRICAL GENERAL NOTES

- SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COCNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT. CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION.
 CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- VERIFY HEIGHTS WITH PROJECT MANAGER PRIOR TO INSTALLATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. ELECTRICAL MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION OVER THE CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU. ALL MATERIALS AND EQUIPMENT SHALL BE APPROVED FOR THEIR INTENDED USE AND LOCATION.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY AND CITY CODES AND OSHA, NFPA, NEC & ASHRAE REQUIREMENTS.
- ENTIRE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE. ALL WORK, MATERIAL AND EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE—STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE—RATED ASSEMBLIES. PROVIDE CUSHIONED, OVER—SIZED PENETRATIONS FOR REFRIGERANT PIPING. OUTDOOR WALL PENETRATIONS SHALL BE SEALED WATER—TIGHT USING SILICONE SEALANT.
- LOCATE ALL PENETRATIONS SUCH THAT ALL REINFORCEMENT CONTAINED WITHIN THE EXISTING BUILDING CONSTRUCTION REMAINS INTACT AND UNDISTURBED. SUBMIT LOCATING METHOD TO THE PROJECT MANAGER FOR APPROVAL PRIOR TO EXECUTION.
- DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MECHANICAL EQUIPMENT.
- ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE \$12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THWN, RATED IN ACCORDANCE WITH NEC 110-14(c).
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM INTERRUPTING CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C. SERVICE EQUIPMENT SHALL WITHSTAND FAULT CURRENT ESTABLISHED BY THE UTILITY.
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE WORK. PROVIDE MATCHING CEILING TILES WHERE DIRTIED OR DAMAGED DURING THE COURSE OF THE WORK. ALL ROOF-RELATED PENETRATIONS AND ADHESIONS SHALL BE PERFORMED BY AN OWNER-APPROVED ROOFER. MAINTAIN ALL EXISTING ROOF WARRANTIES. INTERIOR RECEPTACLES SHALL BE NEMA 5-20R, HUBBELL \$5362, BROWN. WEATHERPROOF, GFI RECEPTACLES SHALL BE HUBBELL \$GF5352, WITH WP26 COVER AND BELL BOX. INTERIOR RECEPTACLE BOXES SHALL BE 4" X 4".
- MINIMUM CONDUIT SIZE SHALL BE 1/2" TRADE DIAMETER: EXCEPT FOR TELEPHONE CONDUIT WHICH SHALL BE 2" TRADE DIAMETER. PROVIDE 36" RADIUS SWEEPS FOR ALL TELEPHONE BENDS. PROVIDE 36"X36"X8" PULL BOXES AT EVERY 4TH TELEPHONE CONDUIT BEND AND AT EVERY 100' OF STRAIGHT TELEPHONE CONDUIT RUN.
- CONDUIT:
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
- LIQUID—TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL—SIZE GROUND CONDUCTOR.
- CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR CEILING, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO INSTALLING.
- PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS. PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE. PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.
- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
- CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY
- COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR.
- VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK. MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.
- LOCATE AND MARK—OUT ALL UNDERGROUND UTILITIES AND STRUCTURES THROUGH THE USE OF AN INDEPENDENT UTILITY LOCATING SERVICE PRIOR TO EXCAVATION. HAND DIG IN AREAS WHERE EXISTING UTILITIES AND/OR STRUCTURES ARE LOCATED.



201-934-2828 NJ CERTIFICATE OF AUTHORIZATION NO. 24GA27932900

LAND MASTER COMMUNITY DEVELOPERS, LLC 156 ORANGE AVENUE WALDEN, NEW YORK 12586 PHONE: (845) 778-3793 FAX: (845) 778-4669

PROJECT NUMBER **DRAWN BY** S.T.G. CHECKED BY P.E.P.

CONST. REVIEW 05/12/04 CONSTRUCTION 11/11/04 CONSTRUCTION 03/17/05 CONSTRUCTION 08/09/05 CONSTRUCTION 12/21/05 CONSTRUCTION

APPROVALS

DATE:

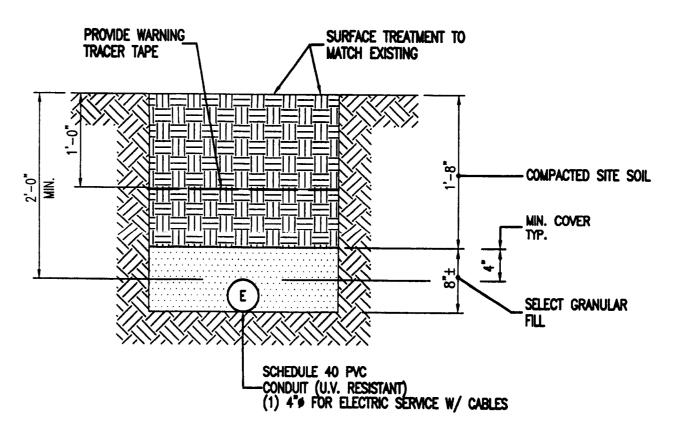
MOUNT AIRY ROAD NEW WINDSOR, ORANGE COUNTY, **NEW YORK**

SHEET TITLE

ELECTRICAL PLAN, DETAILS AND NOTES

SHEET NUMBER

PETER E. PAPAY



5 UNDERGROUND UTILITY TRENCH DETAIL

4. MAXIMUM DOWNTIME FOR SWITCH-OVER IS 10 MINUTES.

5. PROVIDE PANEL "PP-1" W/ (2) 200A, 3-POLE BRANCH BREAKERS

MDL #Q232200 AND (1) 100A, 2-POLE BRANCH BREAKER

6. PUMP CONTROL AND ALARM CIRCUIT. SHOP DRAWINGS TO BE

PROVIDED FOR REVIEW AND APPROVAL PRIOR TO START OF

7. CONTRACTOR TO PROVIDE AN APPROVED SCHEDULE OF EVENTS

FOR THE ELECTRICAL CHANGE-OVER TO MINIMIZE DOWNTIME.

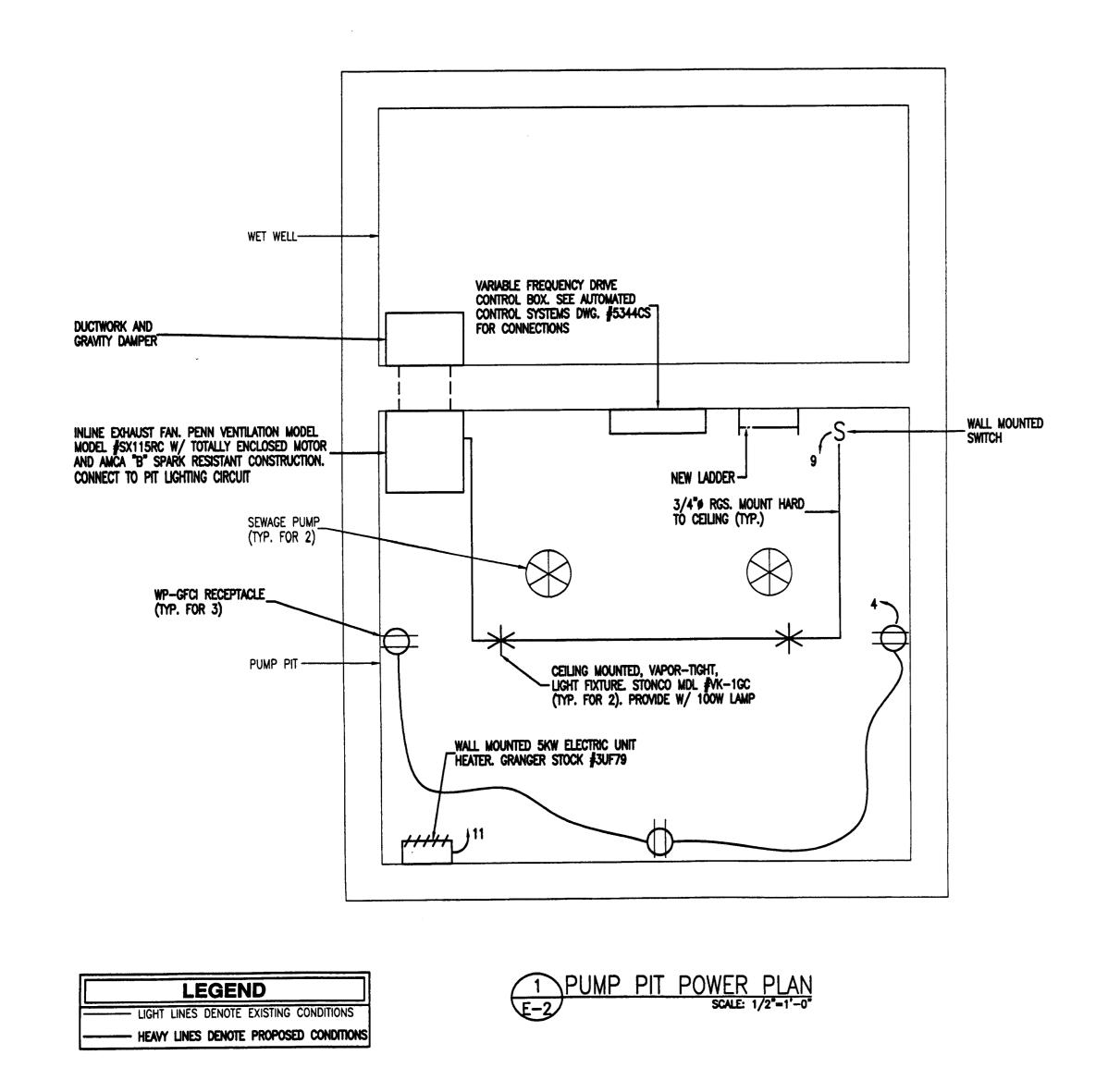
8. PROVIDE PHASE MONITOR ON EACH V.F.D. PILOT CIRCUIT.

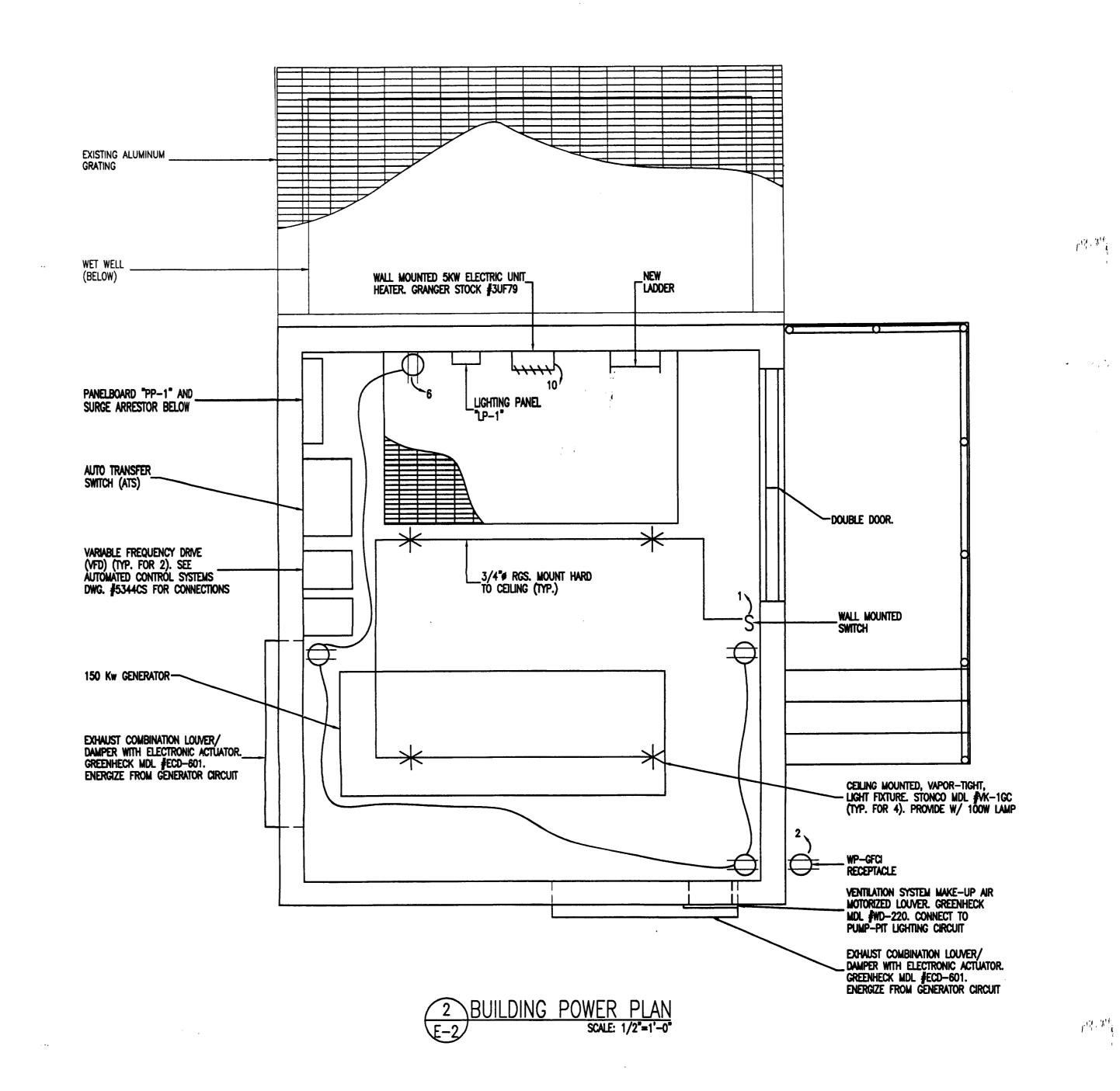
DIVERSIFIED MODEL #SLA-230;-ASA

NOTES:

1. PVC SHALL BE SCHEDULE 80, UV RESISTANT AT ABOVE GRADE LOCATIONS.

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PAPAY ENGINEERING & CONSTRUCTION, INC 100 HILLTOP ROAD, RAMSEY, NJ 07446 201-934-2828 NJ CERTIFICATE OF AUTHORIZATION NO. 24GA27932900 LAND MASTER COMMUNITY DEVELOPERS, LLC 156 ORANGE AVENUE WALDEN, NEW YORK 12586 PHONE: (845) 778-3793 FAX: (845) 778-4669 PROJECT NUMBER **DRAWN BY** S.T.G. CHECKED BY P.E.P. DATE ISSUE CONSTRUCTION 03/17/05 CONSTRUCTION 08/09/05 12/21/05 CONSTRUCTION CONSTRUCTION

APPROVALS	
	_ DATE:
	_ Date:
	_ DATE:

MOUNT AIRY ROAD
NEW WINDSOR,
ORANGE COUNTY,
NEW YORK

SHEET TITLE

ELECTRICAL PLANS

SHEET NUMBER

E-2

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

N.Y. PROFESSIONAL ENGINEER NO. 064690

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PETER E. PAPAY